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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/602,096	06/23/2003	Jennifer A. Hester	P15958	7244
28062 75	590 11/03/2004		EXAMINER	
BUCKLEY, MASCHOFF, TALWALKAR LLC			TRINH, HOA B	
5 ELM STREE NEW CANAA	<del>-</del>		ART UNIT	PAPER NUMBER
	.,		2814	
			DATE MAILED: 11/03/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summany	10/602,096	HESTER ET AL.	HESTER ET AL.	
Office Action Summary	Examiner	Art Unit	<i>j</i>	
TI MANUNIO DATE AND CONTRACTOR OF THE CONTRACTOR	Vikki H Trinh	2814	A	
The MAILING DATE of this communication apperiod for Reply  A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep. If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).  Status  1) Responsive to communication(s) filed on 18 (2a) This action is FINAL. 2b) This action is FINAL. 2b) This action is closed in accordance with the practice under closed in accordance with the practice under Disposition of Claims  4) Claim(s) 1-27 is/are pending in the application 4a) Of the above claim(s) 11-27 is/are withdra 5) Claim(s) is/are allowed.	LY IS SET TO EXPIRE 3 M. 136(a). In no event, however, may a reply within the statutory minimum of thir I will apply and will expire SIX (6) MON tele, cause the application to become Abring date of this communication, even if the saction is non-final. The saction is non-final ance except for formal matter Ex parte Quayle, 1935 C.D. 10.	ith the correspondence address IONTH(S) FROM reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this commod sandoned (35 U.S.C. § 133). timely filed, may reduce any	nunication.	
6) ☑ Claim(s) 1-10 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/o  Application Papers  9) ☐ The specification is objected to by the Examin  10) ☑ The drawing(s) filed on 23 June 2003 is/are: a  Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct	er. a)⊠ accepted or b)⊡ obje e drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).	1.121(d).	
11) ☐ The oath or declaration is objected to by the E	xaminer. Note the attached	d Office Action or form PTO-	-152.	
Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Burea * See the attached detailed Office action for a list	nts have been received. Its have been received in A prity documents have been au (PCT Rule 17.2(a)).	application No received in this National Sta	age	
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	Paper No(	Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-15 	52)	

### Election/Restrictions

- 1. Claims 11-27 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected group, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 10/18/04.
- 2. Applicant's election with traverse of group I in the reply filed on 10/18/04 is acknowledged. The traversal is on the ground(s) that Group II, claims 7-10, is an obvious process of making the device in group I, claims 1-6. Therefore, the examiner will examine claims 1-10 in this Office Action because claims 7-10 fall together with the device group I, claims 1-6, as stated.

The requirement is still deemed proper and is therefore made FINAL.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1-5, and 7-9 are rejected under 35 U.S.C. 102(e) as being anticipated by Suwa et al. (6,803,659).

As to claims 1 and 7, Suwa et al. (6,803,659) discloses a power plane (fig. 2) having a power pad (fig. 2) to receive a first terminal (fig. 2) of a circuit element (fig. 2); a ground pad (fig. 2) to receive a second terminal of a circuit element (fig. 2); a via area (fig. 2) substantially coplanar with the ground pad (fig. 2) from the ground pad, and electrically coupled to the ground

pad (fig. 2); a ground plane (fig. 2); and a via (fig. 2) electrically coupled the via area (fig. 2) tot the ground plane (fig. 2).

As to claim 2, the circuit element is a capacitor (fig. 2).

As to claims 3 and 8, the device has an interface to receive an IC (fig. 2).

As to claims 4 and 9, the device has an interface with a socket (fig. 2).

As to claim 5, the device has an interface with a circuit board (fig. 2).

## Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. This application currently names joint inventors. In-considering patentability-of-the-claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 7. Claims 6 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suwa et al. (Suwa), as applied to claim 1 and 7 above, in view of MacPherson et al. (5,929,627).

Suwa discloses the invention substantially as claimed. However, Suwa does not explicitly teach that the ground plane and power plane are substantially coplanar.

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MacPherson teaches a device having a ground plane (figs 1-2) and a power plane (figs. 1-

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2) that are substantially coplanar.

Suwa and MacPherson are in the same field of mounting an electronic device on a circuit

board.

Therefore, it would have been obvious to one skilled in the art at the time the invention was made to modify the invention of Suwa with the ground plane and the power plane being substantially coplanar, as taught by MacPherson, so as to provide a particular orientation with respect to the pads (MacPherson, col. 4, lines 43-45).

### Conclusion

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Vikki Trinh whose telephone number is (571) 272-1719. The Examiner can normally be reached from Monday-Friday, 9:00 AM - 5:30 PM Eastern Time. If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Mr. Wael Fahmy, can be reached at (571) 272-1705. The office fax number is 703-872-9306.

Any request for information regarding to the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Also, status information for published applications may be obtained from either Private PAIR or Public Pair. In addition, status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. If you have questions pertaining to the Private PAIR system, please contact the Electronic Business Center (EBC) at 866-217-9197 (toll free).

Lastly, paper copies of cited U.S. patents and U.S. patent application publications will cease to be mailed to applicants with Office actions as of June 2004. Paper copies of foreign patents and non-patent literature will continue to be included with office actions. These cited U.S. patents and patent application publications are available for download via the Office's PAIR. As an alternate source, all U.S. patents and patent application publications are available on the USPTO web site (www.uspto.gov), from the Office of Public Records and from commercial sources. Applicants are referred to the Electronic Business Center (EBC) at http://www.uspto.gov/ebc/index.html or 1-866-217-9197 for

information on this policy. Requests to restart a period for response due to a missing U.S. patent or patent application publications will not be granted.

Vikki Trinh, Patent Examiner AU 2814

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